

1 Attorney Docket No. 83651

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3 MULTI-HULL SURFACE VESSEL WITH DRAG REDUCTION ON LATERAL HULLS

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5 ABSTRACT OF THE DISCLOSURE

6 A marine surface vessel having a main hull and at least two
7 lateral hulls disposed respectively on opposite sides of the main
8 hull. The vessel includes an engine disposed in the main hull
9 producing exhaust gas and cooling air, microbubble injectors
10 disposed in subsurface areas of each of the lateral hulls, and
11 conduits in fluid communication with the microbubble injectors.
12 Upon operation of the engine, the exhaust and/or cooling air
13 produced by the engine is directed by the conduits to the
14 injectors to effect generation of microbubbles on the subsurface
15 areas of the lateral hulls to occasion microbubble drag reduction
16 on the lateral hulls.